

**Notice of Allowability**

Application No.

10/589,712

Examiner

PHILLIP NGUYEN

Applicant(s)

LUCAS ET AL.

Art Unit

2191

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/25/2011.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1 and 3-43.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has **THREE MONTHS FROM THE "MAILING DATE"** of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 20110325
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 20120117.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_.

/Phillip H Nguyen/  
Primary Examiner, Art Unit 2191

### **DETAILED ACTION**

1. This Office Action is responsive to the amendment filed 3/25/2011.
2. Claims 1 and 3-43 are in condition for allowance.

### ***Information Disclosure Statement***

3. The information disclosure statement (IDS) submitted on 3/25/2011 is being considered by the examiner.

### ***Examiner's Amendment***

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
5. Authorization for this examiner's amendment was given in a telephone interview with Jeremy D. Protas (61,681) on 1/13/2012. The examiner's amendment is necessitated to clarify the claimed invention and to put the claims in condition for allowance.
6. Claims 1, 13, 16, 27, and 36 have been amended as follows:

1. (Currently Amended) A graphic display editor for use in creating a user interface display that represents operation of one or more entities within a process plant, the graphic display editor comprising:

a repository storing a library of graphic objects, each graphic object including a visual representation of a physical or a logical entity within the process plant;

a processor coupled to the repository and programmed to execute a plurality of routines including:

a graphically based editor canvas routine that enables a user to define an executable graphic display by placing one or more visual representations of the graphic objects from the library of graphic objects onto an edit canvas to define a manner in which the one or more visual representations of the graphic objects will be displayed on a display device to a user during execution of the graphic display;

a property definition canvas routine ~~adapted to enable~~ enabling a user to define a property associated with at least one of the plurality of graphic objects;

a binding definition routine ~~adapted to enable~~ enabling a user to specify a binding between the property and a runtime environment within the process plant; and

an action definition routine ~~adapted to enable~~ enabling a user to interact with the graphic display to perform a function using the graphic display,

wherein the action definition routine enables a user to ~~link~~ access from the graphic display to a further graphic display in a sequential manner, and

wherein the further graphic display includes at least one graphic object with a visual representation of ~~which was~~ placed onto the editor canvas to define the graphic display, and

wherein ~~either (1)~~ the at least one graphic object is depicted by a different graphic visualization in the further graphic display than the at least one graphic object is defined in the graphic display ~~or (2) a value displayed in the graphic display as associated with the at least one graphic object is different from a value defined in the further graphic display as associated with the at least one graphic object.~~

13. (Currently Amended) The graphic display editor of claim 1, wherein the action definition routine enables a user to ~~link to~~ access a control routine display illustrating a control routine implemented within the process plant.

16. (Currently Amended) A non-transitory machine readable storage medium storing a set of graphic displays that are executable on one or more display devices to visually represent operation of one or more entities within a process plant, the set of graphic displays comprising:

instructions executable to cause the one or more display devices to visually represent a first graphic display and a second graphic display, the first graphic display including:

a display area;

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one or more visually interconnected graphic objects, each of the graphic objects including a visual representation of a physical or a logical entity within the process plant and depicted in the display area;

a property definition defining a property associated with at least one of the plurality of graphic objects;

a binding definition specifying a binding between the property and a runtime environment within the process plant; and

a visual link within the display area that enables a user to interact with the first graphic display to ~~link to~~ access the second graphic display in a sequential manner,

wherein the first graphic display includes a first one of the one or more visually interconnected graphic objects having a first visual representation of a first physical or a logical entity and the second graphic display includes the first one of the one or more visually interconnected graphic objects having a second visual representation of the first physical or logical entity.

27. (Currently Amended) A process control and configuration system for use in a process plant, comprising:

a plurality of physical and logic process entities which operate together to perform a process;

a process controller communicatively connected to the plurality of physical and logical process entities;

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one or more control routines implemented on the process controller to control the operation of the plurality of physical and logic process entities;

a display device including a processor and a display screen; and

a set of interrelated graphic displays, the graphic displays independently executable on the display device to visually represent the operation of a set of the process entities within the process plant on the display screen,

wherein ~~one of~~ the set of interrelated graphic displays ~~may be~~ are sequentially accessed from one another ~~one of the set of graphic displays~~,

wherein one process entity of the set of process entities is depicted by a first graphic visualization in the one of the set of interrelated graphic displays and also depicted by a second graphic visualization in ~~the~~ another one of the set of graphic displays.

36. (Currently Amended) A process control and configuration system for use in a process plant, comprising:

a plurality of physical and logic process entities which operate together to perform a process;

a process controller communicatively connected to the plurality of physical and logical process entities;

one or more control routines implemented on the process controller to control the operation of the plurality of physical and logic process entities;

a display device including a processor and a display screen; and

a graphic display editor that enables a user to design a set of interrelated graphic displays, wherein each of the set of interrelated graphic displays is independently executable on the display device to visually represent the operation of one or more of the process entities within the process plant on the display screen,

wherein the set of interrelated graphic displays are sequentially accessed from one another;

wherein a first graphic display of the set of interrelated graphic displays depicts one of the process entities by a first graphic visualization and a second graphic display of the set of interrelated graphic displays depicts the one of the process entities by a second graphic visualization.

### ***Examiner's Statement of Reasons for Allowance***

7. The following is an examiner's statement of reasons for allowance:

Senpupta et al., Van Weele et al, and Schleiss et al., taken alone or in any reasonable combination fail to teach or render obvious the claimed invention as recited in the independent claims 1, 16, 27, and 36.

More specifically, the cited prior arts do not teach the following features when taken into the context of the claim as a whole:

*"wherein the at least one graphic object is depicted by a different graphic visualization in the further graphic display than the at least one graphic object is defined in the graphic display"* as recited in the independent claim 1.

Similar concepts are suggested in the independent claims 16, 27, and 36.

***Correspondence Information***

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHILLIP NGUYEN whose telephone number is (571)270-1070. The examiner can normally be reached on Monday - Thursday 10:00 AM - 3:00 PM EST.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y. Zhen can be reached on (571) 272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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/Phillip H Nguyen/  
Primary Examiner, Art Unit 2191